查询SCBH05F供应商

SEMTECH

FAST RECOVERY 1 PHASE FULL WAVE BRIDGE RECTIFIERS

SCBH05F SCBH1F SCBH2F SCBH4F

January 16, 1998

TEL:805-498-2111 FAX:805-498-3804 WEB:http://www.semtech.com

FAST RECOVERY, LOW CURRENT 1-PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLIES

- Fast reverse recovery time
- Low forward voltage drop
- Low reverse leakage current
- Aluminum case
- Low thermal impedance

QUICK REFERENCE DATA

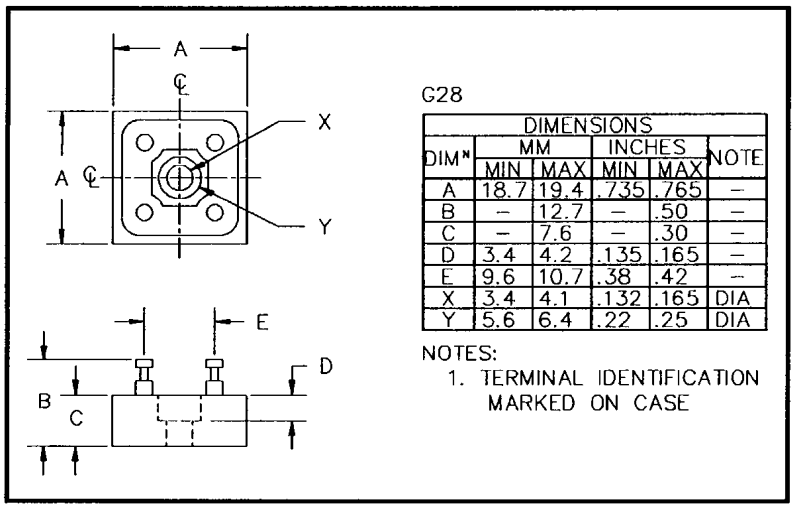
- V_R = 50V - 400V
- I_F = 10A
- I_R = 2.0μA
- t_{rr} = 150nS

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V_{RWM}	Average Rectified Current $I_{F(AV)}$ (@ case temperature)			(@ ambient temperature)			1 Cycle Surge Current I_{FSM} t_p = 8.3mS		Repetitive Surge Current I_{FRM}
		@ 55°C	@ 100°C	@ 125°C	@ 25°C	@ 55°C	@ 100°C	@ 25°C	@ 100°C	@ 25 °C
	Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
SCBH05F SCBH1F SCBH2F SCBH4F	50 100 200 400	10	7.5	5.5	4.0	3.0	1.7	150	80	25

$R_{\theta JC} = 3.3^{o}C/W$

MECHANICAL



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DIM	DIMENSIONS MM MIN	MM MAX	INCHES MIN	INCHES MAX	NOTE
A	18.7	19.4	.735	.765	–
B	–	12.7	–	.50	–
C	–	7.6	–	.30	–
D	3.4	4.2	.135	.165	–
E	9.6	10.7	.38	.42	–
X	3.4	4.1	.132	.165	DIA
Y	5.6	6.4	.22	.25	DIA

NOTES:
1. TERMINAL IDENTIFICATION MARKED ON CASE

SCBH4F is available in Europe to DEF STAN 59-61/90/207 release to F and FX levels.

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652 MITCHELL ROAD NEWBURY PARK CA 91320

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ELECTRICAL CHARACTERISTICS

Device Type	Maximum Reverse Leakage Current I_R @ V_{RWM} @ 25°C	Maximum Reverse Leakage Current I_R @ V_{RWM} @ 100°C	Maximum Forward Voltage V_F @ 3A/leg	Reverse Recovery Time [1] t_{rr} @ 25°C	Maximum operating & storage temp. range. T_{OP} T_{STG}
	µA	µA	Volts	nS	°C
SCBH05F SCBH1F SCBH2F SCBH4F	2.0	40	1.1	150	-55 to +150

[1] Measured on discrete devices prior to assembly

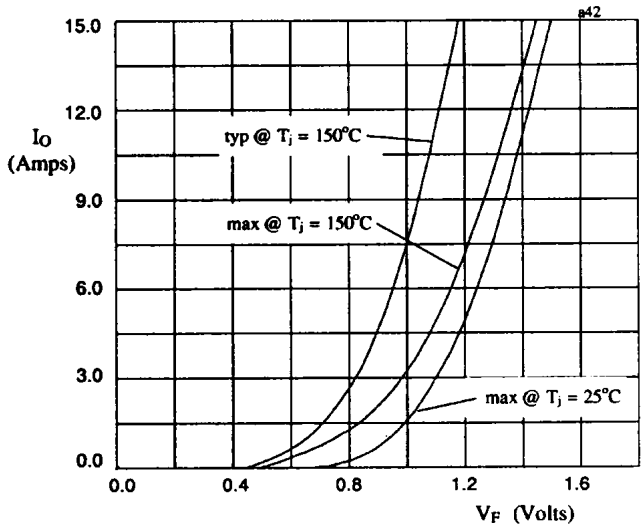

Fig 1. Forward voltage drop against output current per leg.

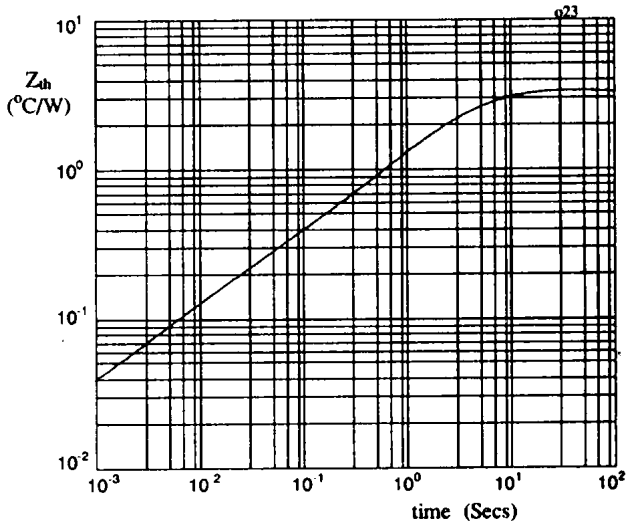

Fig 2. Transient thermal impedance characteristic per leg

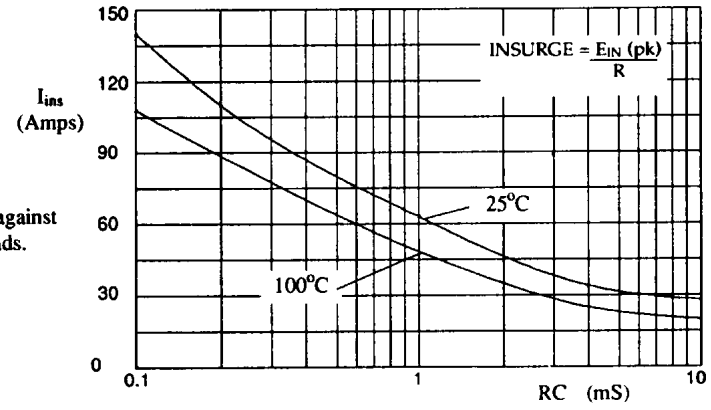

Fig 3. Maximum insurge current against time constant for capacitive loads.

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